

ABSTRACT OF THE DISCLOSURE

The present invention relates to wireless communication systems, interrogators and methods of communicating within a wireless communication system. One aspect of the present invention provides a wireless communication system including at least one remote communication device configured to communicate a return link wireless signal; an interrogator including: a communication station configured to receive the return link wireless signal and to generate a return link communication signal corresponding to the return link wireless signal; communication circuitry coupled with the communication station and configured to communicate the return link communication signal; and a housing remotely located with respect to the communication station and including circuitry configured to receive the return link communication signal from the communication circuitry and to process the return link communication signal.